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               ACT ROBINSON/A
           888 SPA (ABB=ON PLU=ON DAHKSEVAHR.*VHTECCHGDLLE.*PTLVEVSRNL.*FAEEG
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               KKLVAASQAALGL/SQSP
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    FILE 'CAPLUS' ENTERED AT 07:52:40 ON 17 OCT 2005
           128 SEA ABB=ON PLU=ON L1
L2
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L3
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L4
         83248 SEA ABB=ON PLU=ON ALBUMIN?/OBI
L5
           107 SEA ABB=ON PLU=ON L5 AND L2
L6
                           PLU=ON L6 AND L3
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L7
                           PLU=ON FRACTALKINE#/BI
           399 SEA ABB=ON
L8
             3 SEA ABB=ON
                           PLU=ON HJACE54/BI
L9
L10
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                           PLU=ON L2 AND L8
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L14
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             2 SEA ABB=ON PLU=ON L14 AND PS/FS
L15
    FILE 'CAPLUS' ENTERED AT 08:00:42 ON 17 OCT 2005
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O SEA ABB=ON PLU=ON L2 AND L16

4 SEA ABB=ON PLU=ON L15

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 16 OCT 2005 HIGHEST RN 865349-47-9 DICTIONARY FILE UPDATES: 16 OCT 2005 HIGHEST RN 865349-47-9

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L16

L17

<sup>\*</sup> The CA roles and document type information have been removed from \*

<sup>\*</sup> the IDE default display format and the ED field has been added,

<sup>\*</sup> effective March 20, 2005. A new display format, IDERL, is now

\* available and contains the CA role and document type information. \* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Structure search iteration limits have been increased. See HELP SLIMITS for details. REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to: http://www.cas.org/ONLINE/UG/regprops.html => d que 11 888 SEA FILE=REGISTRY ABB=ON PLU=ON DAHKSEVAHR.\*VHTECCHGDLLE.\*PTL L1VEVSRNL.\*FAEEGKKLVAASQAALGL/SQSP => d que 115 4 SEA FILE=REGISTRY ABB=ON PLU=ON HJACE54 L142 SEA FILE=REGISTRY ABB=ON PLU=ON L14 AND PS/FS L15 => d 115 1-2 L15 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN 578031-57-9 REGISTRY Entered STN: 03 Sep 2003 ED CN Galectin-11 (human clone HJACE54/ATCC-209053) (9CI) (CA INDEX NAME) OTHER NAMES: 2: PN: US6605699 SEQID: 2 claimed protein CN PROTEIN SEQUENCE FS MF Unspecified CI MAN SR CA CA, CAPLUS, TOXCENTER, USPATFULL LC STN Files: \*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\* \*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\* \*\*\* USE 'SOD' OR 'SOIDE' FORMATS TO DISPLAY SEQUENCE \*\*\* 1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 1 REFERENCES IN FILE CAPLUS (1907 TO DATE) L15 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN 210478-30-1 REGISTRY RN ED Entered STN: 27 Aug 1998 CN Receptor (human clone HJACE54) (9CI) (CA INDEX NAME) OTHER NAMES: 11: PN: WO0001728 SEQID: 2 claimed protein CN CN 1: PN: WO0063221 SEQID: 2 claimed protein CN26: PN: WO0063221 FIGURE: 2 unclaimed sequence CN Galectin 11 (human clone HJACE54)

MAN

PROTEIN SEQUENCE Unspecified

FS

MF

CI

SR

P. , & )

STN Files: CA, CAPLUS, TOXCENTER

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

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888 SEA FILE=REGISTRY ABB=ON PLU=ON DAHKSEVAHR.\*VHTECCHGDLLE.\*PTL VEVSRNL.\*FAEEGKKLVAASQAALGL/SQSP 128 SEA FILE=CAPLUS ABB=ON PLU=ON L1
399 SEA FILE=CAPLUS ABB=ON PLU=ON FRACTALKINE#/BI
1 SEA FILE=CAPLUS ABB=ON PLU=ON L2 AND L8 L2L8

L10

888 SEA FILE=REGISTRY ABB=ON PLU=ON DAHKSEVAHR.\*VHTECCHGDLLE.\*PTL L1VEVSRNL.\*FAEEGKKLVAASQAALGL/SQSP 128 SEA FILE=CAPLUS ABB=ON PLU=ON L1 L2

L144 SEA FILE=REGISTRY ABB=ON PLU=ON HJACE54

2 SEA FILE=REGISTRY ABB=ON PLU=ON L14 AND PS/FS L15

L16 4 SEA FILE=CAPLUS ABB=ON PLU=ON L15

O SEA FILE=CAPLUS ABB=ON PLU=ON L2 AND L16 T.17

=> d all 110

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

10/17/2005 Searched by Alex Waclawiw

Robinson 10/816,042 2001:781079 CAPLUS ΑN 135:348851 DNED Entered STN: 26 Oct 2001 Albumin fusion proteins with therapeutic proteins for improved shelf-life TI Rosen, Craig A.; Haseltine, William A. ΙN Human Genome Sciences, Inc, USA PA PCT Int. Appl., 606 pp. SO CODEN: PIXXD2 DTPatent LA English ICM C12N IC 63-3 (Pharmaceuticals) CC Section cross-reference(s): 3, 15 FAN.CNT 8 PATENT NO. KIND DATE APPLICATION NO. DATE \_\_\_\_ -----\_\_\_\_\_ -----A2 20011025 WO 2001-US12013 20010412 PΙ WO 2001079444 20020523 WO 2001079444 **A**3 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG AU 2001074809 Α5 20011020 AU 2001-74809 20010412 CA 2405557 20011025 CA 2001-2405557 20010412 AΑ 20030129 EP 2001-941457 EP 1278544 A2 20010412 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR US 2003125247 20030703 US 2001-833041 A1 20010412 US 2001-833117 US 2003171267 20030911 20010412 A1 JP 2003530847 JP 2001-577428 T220031021 20010412 US 2003199043 A1 US 2001-832501 20031023 20010412 A1 B2 US 2003219875 US 2001-833118 20031127 20010412 20050614 US 6905688 B2 20050614 A1 20040115 US 2001-833245 US 2004010134 20010412

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	US	2000-1993	384P	P	20000	425			
	US	2000-2569	931P	P	20001	221			
	US	2001-8331	L18	A3	20010	412			
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				C07K014	/705;	C07K014	1/71	L5B; C07K014/7	6; C07K014/765

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Page 4

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ECLA
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                       C07K014/56; C07K014/61; C07K014/62; C07K014/65;
                       C07K014/705; C07K014/715B; C07K014/76; C07K014/765
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The present invention encompasses fusion proteins of albumin with various AB therapeutic proteins. Therapeutic proteins may be stabilized to extend the shelf-life, and/or to retain the therapeutic protein's activity for extended periods of time in solution, in vitro and/or in vivo, by genetically or chemical fusing or conjugating the therapeutic protein to albumin or a fragment or variant of albumin. Use of albumin fusion proteins may also reduce the need to formulate the protein solns. with large excesses of carrier proteins to prevent loss of therapeutic proteins due to factors such as binding to the container. Nucleic acid mols. encoding the albumin fusion proteins of the invention are also encompassed by the invention, as are vectors containing these nucleic acids, host cells transformed with these nucleic acids vectors, and methods of making the albumin fusion proteins of the invention and using these nucleic acids, vectors, and/or host Thus, plasmid vectors are constructed in which DNA encoding the desired therapeutic protein may be inserted for expression of the albumin fusion proteins in yeast (pPPC0005) and mammalian cells (pC4:HSA). Yeast-derived signal sequences from Saccharomyces cerevisiae invertase SUC2 gene, or the stanniocalcin or native human serum albumin signal peptides, are used for secretion in yeast or mammalian systems, resp. Thus, the fusion product of human growth hormone with residues 1-387 of human serum albumin retains essentially intact biol. activity after 5 wk of incubation in tissue culture media at 37°, whereas recombinant human growth hormone used as control lost its biol. activity in the first Although the potency of the albumin fusion proteins is slightly lower than the unfused counterparts in rapid bioassays, their biol. stability results in much higher biol. activity in the longer term in vitro assay or in vivo assays. Addnl., the present invention encompasses pharmaceutical compns. comprising albumin fusion proteins and methods of treating, preventing, or ameliorating diseases, disorders or conditions using albumin fusion proteins of the invention.

ST albumin fusion therapeutic protein shelflife

IT Chemokines

2. J &

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (1-309; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Bone morphogenetic proteins

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (11; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Bone morphogenetic proteins

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (12; albumin fusion proteins with therapeutic proteins for improved shelf-life)

- IT Bone morphogenetic proteins
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (15; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Bone morphogenetic proteins
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (17; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Bone morphogenetic proteins
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (18; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Interleukins

7 . . . Y

- RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
  - (19; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Bone morphogenetic proteins
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (1; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Interleukins
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (21, albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Bone morphogenetic proteins
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (2; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (331D5; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Bone morphogenetic proteins
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (3; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Receptors
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (4-1BB; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Bone morphogenetic proteins
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (4; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Bone morphogenetic proteins
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (5; albumin fusion proteins with therapeutic proteins for improved

shelf-life)

IT Chemokines

> RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (61164; albumin fusion proteins with therapeutic proteins for improved shelf-life)

Bone morphogenetic proteins IT

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (6; albumin fusion proteins with therapeutic proteins for improved shelf-life)

Bone morphogenetic proteins IΤ

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (7; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Bone morphogenetic proteins

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (9; albumin fusion proteins with therapeutic proteins for improved shelf-life)

Platelet-derived growth factors IT

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (AA; albumin fusion proteins with therapeutic proteins for improved shelf-life)

Proteins, specific or class IT RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (ACRP-30; albumin fusion proteins with therapeutic proteins for improved shelf-life)

 $\mathbf{T}$ Chemokines

> RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (ADEC (adenoid expressed chemokine); albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Interleukins

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (AGF; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Proteins, specific or class

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (APM-1; albumin fusion proteins with therapeutic proteins for improved shelf-life)

Chemokines TΨ

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (Act-2; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Platelet-derived growth factors RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (BB; albumin fusion proteins with therapeutic proteins for improved

shelf-life)

TT Proteins, specific or class RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(BCMA; albumin fusion proteins with therapeutic proteins for improved shelf-life)

- IT Platelet-derived growth factors
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (Bv-sis; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines

- RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
  - (C-C, 2; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (C-C, 3; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (C-C, DGWCC; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (C-C, DVic-1; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (C-C, ELC; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (C-C, HCC-1; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (C-C, IBICK; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (C-C, ILINCK; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (C-C, SLC (secondary lymphoid chemokine); albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (C-C, STCP-1; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic

use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (C-X-C, 3; albumin fusion proteins with therapeutic proteins for
 improved shelf-life)

IT Chemokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (C-X-C; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (C10; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Troponins

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (C; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (CCC3; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (CCF18; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (CCR2; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT CD antigens

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (CD27; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Glycoproteins, specific or class

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (CD40-L (antigen CD40 ligand); albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Proteins, specific or class

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (CTAP-III (connective tissue activating protein III); albumin fusion proteins with the

IT Antigens

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (CTLA-8; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokine receptors

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (CXCR3; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Proteins, specific or class

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (Cerebus; albumin fusion proteins with therapeutic proteins for improved shelf-life)

Proteins, specific or class
RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(Chr19Kine; albumin fusion proteins with therapeutic proteins for

improved shelf-life)

IT Platelet-derived growth factors
 RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic
 use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(D; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Cytokine receptors

Value Value

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (DR3 (death receptor 3); albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Proteins, specific or class

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (EDAR; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Interleukins

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic
use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (EDIRF I protein; albumin fusion proteins with therapeutic proteins for
 improved shelf-life)

IT Chemokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (EEC (eosinophil expressed chemokine); albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Proteins, specific or class

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (ENA-78 (epithelial neutrophil activating protein-78); albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Hemopoietins

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (FLT3 ligand; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (HCC-1; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Troponins

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(I; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (L105-7; albumin fusion proteins with therapeutic proteins for improved shelf-life)

- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(LVEC-1 (liver expressed chemokine 1); albumin fusion proteins with therapeutic proteins for improved shelf-life)

- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(LVEC-2 (liver expressed chemokine 2); albumin fusion proteins with therapeutic proteins for improved shelf-life)

- IT Proteins, specific or class
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Lyn-1; albumin fusion proteins with therapeutic proteins for improved shelf-life)

- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(M110; albumin fusion proteins with therapeutic proteins for improved shelf-life)

- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (M11A; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (MACK (mammary associated chemokine); albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (MCP-3 $\alpha$  and MCP-3 $\beta$ ; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (MCP-4; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (MCPP (monocyte chemotactic proprotein); albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (MDC (macrophage-derived chemokine); albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Monokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (MIG (monokine induced by  $\gamma$ -interferon); albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (MIG- $\beta$ ; albumin fusion proteins with therapeutic proteins for

improved shelf-life)

#### IT Interleukins

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RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (MIRAP; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Proteins, specific or class

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (MP52; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Proteins, specific or class

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (NOGO-66; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Proteins, specific or class

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (NOGO-A; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Proteins, specific or class

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (NOGO-B; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Proteins, specific or class

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (NOGO-C; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Antigens

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (OX-40; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (PF4; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (PGBC (pituitary expressed chemokine); albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokine receptors

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (RANTES; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (SISD; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(SLC (secondary lymphoid tissue chemokine); albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Troponins

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (T; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Proteins, specific or class

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (TAC1; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Cytokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (TARC (thymus and activation regulated cytokine); albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokines

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RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (TMEC (T cell mixed lymphocyte reaction expressed chemokine); albumin fusion proteins with therapeutic proteins for improved shelf-life)

Proteins, specific or class
RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(Tarc; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Proteins, specific or class
 RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (Tim-1; albumin fusion proteins with therapeutic proteins for improved shelf-life)

Proteins, specific or class
RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(Troy; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (ZCHEMO-8; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic
use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (ZSIG-35; albumin fusion proteins with therapeutic proteins for
 improved shelf-life)

IT Drug delivery systems

Gene therapy

Molecular cloning

(albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT CD30 (antigen)

CD40 (antigen)

Cell adhesion molecules

Cytokines

Enzymes, biological studies

Eotaxin

Erythropoietin receptors

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Fas ligand
Fusion proteins (chimeric proteins)
Granulocyte-macrophage colony-stimulating factor receptors
Growth factors, animal
Interferons
Interleukin 1
Interleukin 1 receptor antagonist
Interleukin 11
Interleukin 13
Interleukin 14
Interleukin 15
Interleukin 17
Interleukin 18
Interleukin 1a
Interleukin 1\beta
Interleukin 3
Interleukin 4
Interleukin 4 receptors
Interleukin 5 receptors
Interleukin 6
Interleukin 6 receptors
Interleukin 8
Interleukin 8 receptors
Interleukin 9
Lymphotoxin
Monocyte chemoattractant protein-1
Neutrophil-activating peptide-2
Platelet-derived growth factors
RANTES (chemokine)
Stem cell factor
Synthetic gene
Tumor necrosis factor receptors
Tumor necrosis factors
Vascular endothelial growth factor receptors
RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic
use); BIOL (Biological study); PREP (Preparation); USES (Uses)
   (albumin fusion proteins with therapeutic proteins for improved
   shelf-life)
Interleukin 10
Interleukin 12
Interleukin 2
Interleukin 5
Interleukin 7
RL: BSU (Biological study, unclassified); BIOL (Biological study)
   (albumin fusion proteins with therapeutic proteins for improved
   shelf-life)
Proteins, specific or class
RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic
use); BIOL (Biological study); PREP (Preparation); USES (Uses)
   (b57; albumin fusion proteins with therapeutic proteins for improved
   shelf-life)
Proteins, specific or class
RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic
use); BIOL (Biological study); PREP (Preparation); USES (Uses)
   (chemokine-like protein PF4-414; albumin fusion proteins with
   therapeutic proteins for improved shelf-life)
Growth factors, animal
RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic
use); BIOL (Biological study); PREP (Preparation); USES (Uses)
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(chondromodulins, -like protein; albumin fusion proteins with therapeutic proteins for improved shelf-life)

- IT Proteins, specific or class
  - RL: BSU (Biological study, unclassified); BIOL (Biological study) (collapsins, antibodies for; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Proteins, specific or class
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (exodus; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Signal peptides
  - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
    - (for improved secretion in yeast or mammalian cells; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (fractalkines; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Agglutinins and Lectins
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (galectin-4; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Proteins, specific or class
   RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
   (gene Patched-2; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Vascular endothelial growth factor receptors
  RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
   (gene flt 1; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Proteins, specific or class
   RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
   (gene patched; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Proteins, specific or class
   RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
   (glycodelin-A; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
  (granulocyte chemotactic protein-2; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(gro- $\alpha$ ; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokines

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RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (gro- $\beta$ ; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (gro- $\gamma$ ; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Proteins, specific or class

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (growth-related oncogene- $\alpha$ ; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Proteins, specific or class

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (growth-related oncogene- $\beta$ ; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Proteins, specific or class

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (growth-related oncogene-γ; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Cytokines

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (interferon-inducible IP-10; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Interleukin receptors

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (interleukin 10 receptors; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Interleukin receptors

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic
use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (interleukin 11; albumin fusion proteins with therapeutic proteins for
 improved shelf-life)

IT Interleukin receptors

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (interleukin 12; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Interleukin receptors

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (interleukin 13; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Interleukin receptors

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (interleukin 15; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Interleukin receptors

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic

- use); BIOL (Biological study); PREP (Preparation); USES (Uses) (interleukin 17; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Interleukin receptors
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (interleukin 9; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines

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- RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
  - (interleukin C; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Proteins, specific or class
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (interleukin-1 accessory; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Proteins, specific or class
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (interleukin-2 receptor associated p43; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Lymphokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (lymphotactins; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (macrophage inflammatory protein  $3\alpha$ ; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (macrophage inflammatory protein  $3\beta$ ; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (macrophage inflammatory protein  $3\gamma$ ; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Animal cell
  - (mammalian, recombinant expression host; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Antitumor agents
  - (melanoma; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokines
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (monocyte chemoattractant protein 3; albumin fusion proteins with therapeutic proteins for improved shelf-life)
- IT Chemokine receptors
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
    - (monocyte chemoattractant protein-1; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokines

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RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (monocyte chemoattractant protein-2; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Chemokine receptors

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (monocyte chemoattractant protein-4; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Proteins, specific or class

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (neurotactin; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Growth factors, animal

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (osteogenic protein 2; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Tumor necrosis factor receptors

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (p75; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Plasmid vectors

(pC4:HSA, for mammalian cell expression; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Plasmid vectors

(pPPC0005, for yeast expression; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Plasmid vectors

(pScCHSa, for yeast expression; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Plasmid vectors

(pScNHSA, for yeast expression; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Placental hormones

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (placenta-derived mitogenic factors; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Saccharomyces cerevisiae

Yeast

(recombinant expression host; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Albumins, biological studies

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (serum; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Genetic element

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(signal sequence, for improved secretion in yeast or mammalian cells; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT Antibodies

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic

- L 0 7 use); BIOL (Biological study); PREP (Preparation); USES (Uses) (single chain; albumin fusion proteins with therapeutic proteins for improved shelf-life) IT Chemokines RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (stem cell inhibitory factor; albumin fusion proteins with therapeutic proteins for improved shelf-life) Growth factors, animal TT
  - RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (stroma-derived growth factor  $1\alpha$  and  $1\beta$ ; albumin fusion proteins with therapeutic proteins for improved shelf-life)
  - ITProteins, specific or class RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (therapeutic; albumin fusion proteins with therapeutic proteins for improved shelf-life)
  - IT Interleukin 1 receptors RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (type 3; albumin fusion proteins with therapeutic proteins for improved shelf-life)
  - IT Interleukin 1 receptors RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (type II; albumin fusion proteins with therapeutic proteins for improved shelf-life)
  - ITInterferons RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (α; albumin fusion proteins with therapeutic proteins for improved shelf-life)
  - IT Chemokine receptors RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  $(\beta$  chemokine receptor CCR5; albumin fusion proteins with
  - therapeutic proteins for improved shelf-life) IT Chemokine receptors RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic
    - use); BIOL (Biological study); PREP (Preparation); USES (Uses)  $(\beta$  chemokine receptor CCR7; albumin fusion proteins with therapeutic proteins for improved shelf-life)
  - Transforming growth factors IT RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (β1-; albumin fusion proteins with therapeutic proteins for improved shelf-life)
  - Transforming growth factors ΤТ RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (β2-; albumin fusion proteins with therapeutic proteins for improved shelf-life)
  - IT Chemokines RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (β9; albumin fusion proteins with therapeutic proteins for improved shelf-life)
  - Thrombomodulin IT

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) ( $\beta$ ; albumin fusion proteins with therapeutic proteins for improved shelf-life)

IT 78990-62-2P, Calpain

RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (10a and 10b and 10c; albumin fusion proteins with therapeutic proteins for improved shelf-life)

- 50-56-6P, Oxytocin, biological studies 9002-62-4P, Prolactin, biological IT 9002-67-9P, Luteinizing hormone 9002-68-0P, FSH 9002-72-6P, 9004-10-8P, Insulin, biological studies 9014-42-0P, Growth hormone 11000-17-2P, Vasopressin 11096-26-7P, Erythropoietin Thrombopoietin 33507-63-0P, Substance P 67763-96-6P, Insulin-like growth factor 1 106096-92-8P, Acidic fibroblast growth factor 83869-56-1P, GM-CSF 106096-93-9P, Basic fibroblast growth factor 122191-40-6P, ICE 123584-45-2P, Fibroblast growth factor 4 129653-64-1P, proteinase Fibroblast growth factor 5 130939-41-2P, Fibroblast growth factor 6 140208-23-7P, Plasminogen activator 130939-66-1P, Neurotrophin 3 141760-45-4P, Furin 142243-03-6P, Plasminogen activator inhibitor-1 143011-72-7P, G-CSF 143375-33-1P, Neurotrophin 4 inhibitor-2 148348-14-5P, Fibroblast growth factor 3 151185-16-9P, Fibroblast growth 157857-21-1P, Maspin 164003-41-2P, Fibroblast growth factor 8 factor 9 185915-22-4P, Fibroblast growth factor 13 187888-07-9P, Endostatin 193363-12-1P, Vascular endothelial growth factor D 203874-76-4P, 204719-95-9P, Fibroblast growth factor 16 Fibroblast growth factor 12 214210-47-6P, Neuropilin 1 219563-02-7P, Vascular endothelial growth 227018-38-4P, Neuropilin 2 271597-10-5P, Growth/differentiation factor 1 322637-18-3P, Fibroblast growth factor 331718-56-0P, Resistin 332350-92-2P, Bone morphogenetic protein receptor kinase 3 RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
- use); BIOL (Biological study); PREP (Properties); THO (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
  (albumin fusion proteins with therapeutic proteins for improved shelf-life)

  IT 144114-21-6, Retropepsin
- RL: BSU (Biological study, unclassified); BIOL (Biological study)
  (inhibitors: albumin fusion proteins with therapeutic proteins

(inhibitors; albumin fusion proteins with therapeutic proteins for improved shelf-life)

- 155945-98-5, PN: US5962255 SEQID: 59 unclaimed DNA 156163-00-7 IT 167728-69-0 167728-70-3 167728-71-4 167728-72-5 167728-73-6 167731-74-0, PN: US5962255 SEQID: 56 unclaimed DNA 167731-70-6 167731-75-1, PN: US5962255 SEQID: 57 unclaimed DNA 167731-76-2, PN: US5962255 SEQID: 58 unclaimed DNA 167731-77-3, PN: US5962255 SEQID: 60 167731-78-4, PN: US5962255 SEQID: 61 unclaimed DNA unclaimed DNA 167731-79-5 167731-80-8 167731-81-9 167732-10-7 167732-11-8, PN: US5962255 SEQID: 551 unclaimed DNA 167732-12-9 167732-13-0 167732-14-1, PN: US5962255 SEQID: 554 unclaimed DNA 167732-15-2, PN:

US5962255 SEQID: 555 unclaimed DNA 167732-16-3 167732-17-4 167732-18-5 167732-19-6, PN: US5962255 SEQID: 98 unclaimed DNA 167732-20-9, PN: US5962255 SEQID: 572 unclaimed DNA 167732-21-0 167732-22-1, PN: US5962255 SEQID: 574 unclaimed DNA 195164-37-5 217893-77-1, GenBank A63614 217893-78-2, GenBank A63615 217893-79-3, GenBank A63616 217893-80-6, GenBank A63617 217893-81-7, GenBank A63618 217893-82-8, GenBank A63619 217893-83-9, GenBank A63620 217893-84-0, 217893-85-1, GenBank A63622 217893-86-2, GenBank A63624 GenBank A63621 217893-89-5, GenBank A63627 217893-90-8, GenBank A63628 217893-91-9, GenBank A63629 217893-92-0, GenBank A63630 244008-03-5, PN: WO9947540 SEOID: 3 unclaimed DNA 367319-52-6 367319-53-7 367319-54-8 367319-58-2 367319-59-3 367319-56-0 367319-57-1 367319-55-9 367319-61-7 367319-62-8 367319-63-9 367319-64-0 367319-60-6 370965-07-4 370965-08-5 367319-66-2 367319-65-1 RL: PRP (Properties) (unclaimed nucleotide sequence; albumin fusion proteins with therapeutic proteins for improved shelf-life) 122024-47-9 131748-18-0 244008-06-8, PN: WO9947540 SEQID: 4 unclaimed 244008-07-9, PN: WO9947540 SEQID: 5 unclaimed DNA 244008-08-0, PN: WO9947540 SEQID: 6 unclaimed DNA 244008-09-1, PN: WO9947540 SEQID: 7 unclaimed DNA 244008-12-6, 8: PN: WO0183510 SEQID: 8 unclaimed DNA 244008-13-7, PN: WO9947540 SEQID: 9 unclaimed DNA 367273-46-9 367273-47-0 367273-48-1 371149-71-2 RL: PRP (Properties) (unclaimed sequence; albumin fusion proteins with therapeutic proteins for improved shelf-life) 102510-92-9P, Inhibin A RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  $(\alpha$ - and  $\beta$ -subunits; albumin fusion proteins with therapeutic proteins for improved shelf-life) 9061-61-4P, Nerve growth factor RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (β; albumin fusion proteins with therapeutic proteins for improved

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shelf-life)

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